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Title: **JP8138635A2: CYLINDRICAL MANGANESE DRY BATTERY**

Derwent Title: Cylindrical manganese battery - comprises zinc can contg. non-volatile between cathode and base insulation ring [\[Derwent Record\]](#)

Country: **JP** Japan

Kind: **A**

Inventor: **URADE MAKOTO;**

Assignee: **HITACHI MAXELL LTD**
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Published / Filed: **1996-05-31 / 1994-11-02**

Application Number: **JP1994000293875**

IPC Code: **H01M 2/02;** [H01M 6/08;](#)

Priority Number: 1994-11-02 **JP1994000293875**

Abstract: **PURPOSE:** To provide a cylindrical manganese dry battery excellent in shelf life by preventing the intrusion of oxygen in the atmosphere into a battery even in the case of an occurrence of a pinhole.

CONSTITUTION: A sealing body 7 in the center through hole 7a of which a carbon rod 6 is interposed is arranged in the opening of a zinc can 1 in which a positive electrode mixture 3 and a separator 2 are filled, while a negative electrode terminal plate 9 and the insulation ring 10 of a negative electrode side are arranged in the bottom of the can 1. A heat contractive resin tube 11 is arranged on the periphery of the zinc can 1, the heat contractive resin tube 11 is heat-contracted, a positive electrode terminal plate 12 is fitted on the upper end portion of the carbon rod 6, and the insulation ring 13 of a positive electrode side is arranged on the periphery of the positive electrode terminal plate 12 and is clamped in an axial direction by a metal armor can 14 so as to seal the opening portion of the zinc can 1. In this cylindrical manganese dry battery, volatile resistant or nonvolatile fluid organic substance such as machine oil, liquid paraffin or the like is interposed on the whole faces or a part between the zinc can 1 and the heat contractive resin tube 11.

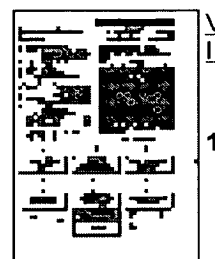
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PDF	Patent	Pub.Date	Inventor	Assignee	Title



	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes
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Other Abstract
Info:

CHEMABS 125(10)119544V CAN125(10)119544V DERABS C96-314441 DERC96-314441



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(30) Priority:

(43) Date of application
publication: **31.05.96**(84) Designated contracting
states:(71) Applicant: **HITACHI MAXELL LTD**(72) Inventor: **URADE MAKOTO**

(74) Representative:

**(54) CYLINDRICAL
MANGANESE DRY
BATTERY**

(57) Abstract:

PURPOSE: To provide a cylindrical manganese dry battery excellent in shelf life by preventing the intrusion of oxygen in the atmosphere into a battery even in the case of an occurrence of a pinhole.

CONSTITUTION: A sealing body 7 in the center through hole 7a of which a carbon rod 6 is interposed is arranged in the opening of a zinc can 1 in which a positive electrode mixture 3 and a separator 2 are filled, while a negative electrode terminal plate 9 and the insulation ring 10 of a negative electrode side are arranged in the bottom of the can 1. A heat contractive resin tube 11 is arranged on the periphery of the zinc can 1, the heat contractive resin tube 11 is heat-contracted, a positive electrode terminal plate 12 is fitted on the upper end portion of the carbon rod 6,

A detailed cross-sectional view of a battery assembly. The diagram shows a central active material region (1) surrounded by a separator (2) and an electrolyte (3). A current collector (4) is positioned at the bottom. The assembly is housed within a container (5) with a lid (6). A terminal (7) is connected to the current collector. A seal (8) is located at the top. A cross-section line A-A is indicated. Other components labeled include 10, 11, 12, 13, and 14.